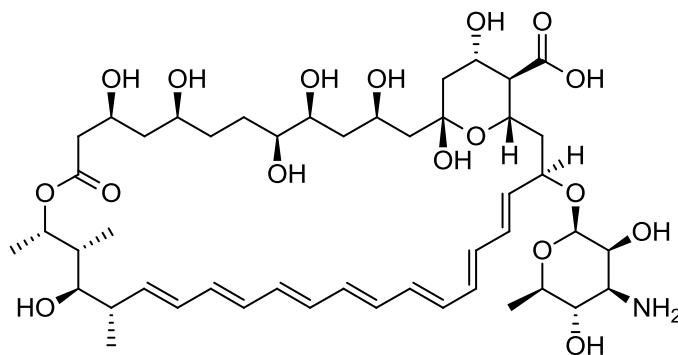


Amphotericin B

Code No.: **BIA-A1441**

Pack sizes: **5 mg, 25 mg**



Synonyms : Amphotericin

Specifications

CAS #	: 1397-89-3
Molecular Formula	: C₄₇H₇₃NO₁₇
Molecular Weight	: 924.1
Source	: <i>Streptomyces</i> sp.
Appearance	: Yellow solid
Purity	: >99% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Poor water solubility.

Application Notes

Amphotericin B is heptaene polyene antifungal originally discovered as a metabolite of *Streptomyces nodosus* in 1956. Amphotericin B acts by binding sterols in the cell membrane leading to the formation of transmembrane channels and subsequent ion leakage. Amphotericin B is poorly water soluble so has been developed for therapeutic use as a complex with desoxycholate or in liposomes to improve bioavailability. Amphotericin B is widely used as a research reagent in diverse applications with over 15,000 literature citations.

References

1. Amphotericins A and B, antifungal antibiotics produced by a streptomycete. II. The isolation and properties of the crystalline amphotericins. Vandeputte J. et al., *Antibiot. Annu.* 1955-1956. 1956, 587.
2. Amphotericin B and its new derivatives – Mode of action. Baginski M. & Czub J. *Current Drug Metabolism* 2009, 10, 459.
3. Liposomal amphotericin B. Therapeutic use in the management of fungal infections and visceral leishmaniasis. Coukell A.J. & Brogden R.N. *Drugs* 1998, 55, 585.